Nombres au hasard

26099	65801	69870	84446	58248	21282	56938	54729	67757	78937	26099
71874	61692	80001	21430	02305	59741	34262	15157	27545	94083	71874
08774	29689	42245	51903	69179	96682	91819	60812	17631	09703	08774
37294	92028	56850	83380	05912	29830	37612	15593	73198	17545	37294
33912	37996	78967	57201	66916	73998	54289	07117	84313	17545	33912
63610	61475	26980	23801	54972	72068	19103	53756	04281	56898	63610
01570	41701	30382	54617	06077	29354	95704	25926	21811	96561	01570
24159	77787	38973	82178	46802	90245	01805	23966	96559	27871	24159
92834	52941	88301	22127	23459	40229	74678	21859	98615	59892	92834
16178	60063	59284	16279	48003	44631	08623	[illegible]	40472	4031	16178
81808	32980	80660	98391	62243	19678	39551	18398	36918	02981	81808
28628	82072	04854	52809	86608	68017	11120	28635	72850	22676	28628
62249	65757	12273	91261	96983	15082	83851	[illegible]	81728	93128	62249
84541	99891	01585	96711	29712	02877	70955	59673	26838	75403	84541
89052	39061	99811	69831	47234	93263	47386	[illegible]	18874	07734	89052
13407	62899	78937	90525	25033	56358	78902	17068	72488	92855	13407
50230	63237	94083	93634	71652	02656	57532	60307	91619	58707	50230
84980	62458	09703	78397	66179	46982	67619	39253	90763	73069	84980
22116	33646	17545	31321	65772	86506	09811	82816	92211	93188	22116
22116	33646	17545	31321	65772	86506	09811	82818	92211	95668	22116
68645	15068	56898	87021	40115	27524	42221	88293	67592	94921	68645
26518	39122	96561	56001	50260	68618	85596	83929	09041	50369	26518
36493	11666	27871	71329	69212	57932	65281	57233	07732	64465	36493
77402	12991	59892	85581	70823	53338	33105	67080	16568	96961	77402
83679	97154	40341	84741	08967	73287	91952	59016	95774	96072	83679
71802	39356	02981	89107	79788	51330	37129	31898	34011	59691	71802
57494	72484	22676	44311	15356	05348	03582	66183	68392	21224	57494
73364	38416	93128	10297	11419	82937	84389	88273	96010	23589	73364
14499	83965	75403	18002	45068	54257	18085	92625	60911	53928	14499
40747	03084	07734	88940	88722	85717	73810	79866	84853	96443	40747
42237	59122	92855	62097	81276	06318	81607	00565	56626	43223	62097
32934	60222	58707	44858	36081	79981	01291	68797	45427	25242	32934
05764	14284	73069	80830	17231	42936	48472	18782	51646	92476	05764
32706	94879	93188	66049	25988	46656	35565	13800	83745	12611	32706
22190	27559	95668	53261	21676	98913	13618	[illegible]	29310	40993	22190
81616	15641	94921	95930	63506	22007	29966	[illegible]	62256	51110	81616
11187	95098	50369	94874	19853	06933	69767	88812	35676	40744	11187
47886	49549	64465	14508	28215	47766	03076	25960	47239	03429	47886
21325	89726	96964	66106	68517	67954	16570	72433	91514	93772	61325
59927	79213	96072	64510	59002	26619	02930	83677	26442	07943	59927
44232	30754	59691	34893	92531	70313	24969	11158	91409	00384	44232
15956	31379	21224	20166	74348	66239	32701	11018	31937	67981	15956
58597	14598	23589	50700	96194	15831	08968	[illegible]	01207	89926	58597
20986	57081	53928	47768	18313	82950	12335	31378	08662	74348	20986
75371	04678	96443	72965	68012	52185	55139	73130	74306	96194	75371
75775	60178	51110	30735	29761	39565	45332	13671	69405	94874	75775
91592	54102	25242	00063	42467	23339	55311	81275	08602	14508	91592
16106	87812	92476	07849	65510	77763	33681	[illegible]	32490	66106	16106
30764	57054	12611	21155	01332	34101	64795	[illegible]	84390	64540	30764
63826	14116	40093	93849	49799	41080	48621	[illegible]	84653	34893	63826
43645	89232	00384	10858	21789	14093	06268	16416	97660	64767	43645
61618	19275	40744	22182	12424	98601	19989	53166	41836	03076	61618
68136	06546	04029	47946	19526	27122	42515	55041	34912	16570	68136
74005	34558	93779	96120	01695	43720	88646	[illegible]	10050	02360	74005
54437	88825	07943	81795	31709	13358	04526	61838	72133	4969	5443

IEX 4: SURVEY IODINE PROGRAMME

TER Nber :

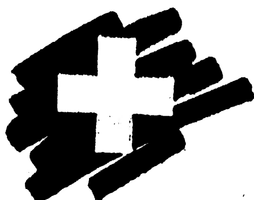
Y Nber :

OF HOUSEHOLD :

CAMP :

DATE :

	Sex	AGE/ DATE BIRTH	CARD (+)/(−)/Pesh	DATE of Injection	GRADE OF GOITRE BEFORE INJECTION	GRADE OF GOITRE AFTER INJECTION	REGRESSION (+) (−)	IODIZED SALT (+) (−)



MEDECINS SANS FRONTIERES
68, bd St-Marcel 75005 Paris – France. Tél. : (1) 47.07.29.29
میڈیسنز سینز فرنٹیئرز
70 D/B 5 Satellite Town P O. Box 432 Quetta Pakistan Tel. 70037

POST CLINICAL SURVEY

OF AN IODIZED OIL INJECTION PROJECT

AMONG AFGHANS REFUGEES

CHITRAL VALLEY

February-March 1990

Christine Bousquet , RN .

CONTENTS :

I : INTRODUCTION :

After an iodized oil injection was conducted in Chitral valley from May 1989 to December 1989, MSF was interested in making an evaluation of the project, though a post clinical survey is not fully accurate in determining the decrease in goiter stages.
On the other end, it was logistically impossible to study the effects of the injection on urinary iodine.

II : OBJECTIVES :

The principal aims of this post clinical survey were :

. to determine the coverage of the target population.

. to appreciate the consumption of iodized salt after the education campaign we conducted.

. to evaluate the degree of reduction in goiter stages.

III : METHODOLOGY :

No previous post clinical survey methodologies were available to us. After careful consideration, we decided that the most appropriate methodology was to follow the WHO rules for vaccination survey, although in order to increase the sample size, we surveyed 210 families rather than 210 children.

Target population : (See map, Annex 1)

The population affected by this survey was the Afghan refugees living in the following camps :

. Domshogur

. Orgush

. Shidi

. Bumburet

. Kesu

. Khairabad

. Kalkatak

Ursum välley and Nagar were covered in December and thus not included in this survey : a minimum of 3 months after the injection is normal--ly required to appreciate any change in goiter stages.

AGE AND GROUP EVALUATED :

The population injected in those camps included :

. male from 0 to 20 years .

. female from 0 to 45 years .

30 clusters of 7 families were selected at random, which made a total of 210 families.

Cluster sampling :

CUMULATIVE POPULATION : (See Annex 2)

To draw up a list of the cumulative population , we used the popula--tion figure registered by UNHCR in each camp or in each sub-division .

SAMPLING INTERVAL :

$$\frac{\text{Total cumulative population}}{\text{30 clusters}} : \frac{22811}{30} = 760$$

SELECTION OF A RANDOM NUMBER : (See Annex 3)

The selection of a random number was done with a random table : 372 .

This number needed to be less than or equal to the sampling interval.

Method to determine the houses to be visited within each cluster :

No list of the houses was available and their irregular grouping did not allow us to create a house by house map. Therefore, we proceeded in the following way :

. we determined in each sub-division of the camp the number of mosques which would then be the geographic centers of the sub-divi--sion.

. after determination at random of the first mosque, one pencil was thrown into the air; then, the tip indicated in which direction we had to go.

. we drew lots between one and the total number of houses regis--tered in that direction. The survey started with the first house of of the number selected.

There was, however, a small quantity of houses in the sub-division com--pared with the numbers of clusters to do, for this reason, we started with the first house following the direction indicated by the pencil.

Questionnaire : (See Annex 4)

We considered that each family was fully covered if all the members between 0 to 20 years for male and 0 to 45 years for female had recei--ved the injection and had the registration card.

or the refugees who were not able to show us the card, we would check in the MSF permanent register of the iodized oil injection project.

IV : RESULTS :

Among the 210 families randomly selected, 180 families had received the iodized oil injection, which calculates to 85,7% of the families.

STAGE GOITER	NUMBER OF GOITERS CHECKED	NUMBER OF GOITERS WHICH DECREASES	% OF DECREASE
I	100	24	24 %
II	36	21	58,3%
III	10	2	20 %

The number of families who were using iodized salt was 28, which calcu--lates to 13,3% of the families selected.

Among the 210 families or 956 people visited, of those previously determined to have goiters, only 12 individuals were absent during this survey.

V : COMMENTS :

- The majority of defaulters were found in Domshogur : the cluster size here was 32 families of which 8 had missed the injection. Due to a strong "purdah" system, some families did not wish to mix with others during the injection period.

- Goiters decrease : we observed a predominance of goiters in stage 1. We noticed the most significant rate of decrease was for goiters stage 2 but it is possible that the number of stage 2 goiters checked were insufficient to be statistically reliable enough to draw any firm conclusions.

- Among the 180 families fully covered, all had the registration card. They kept it carefully inside the plastic cover.

- Despite the provision of daily information about iodized salt which included flip charts and packages of salt, the actual household use is very low. Nevertheless, the families who have members with visible goiters seem to use it regularly.

The connection between uniodized salt and goiter is difficult for the refugee population to make. Behavioural changes regarding the use of iodized salt will require intensive and long term education.

In the meantime, the inclusion of iodized salt in refugee rations is the most effective short term solution to IDD.

VI : CONCLUSION :

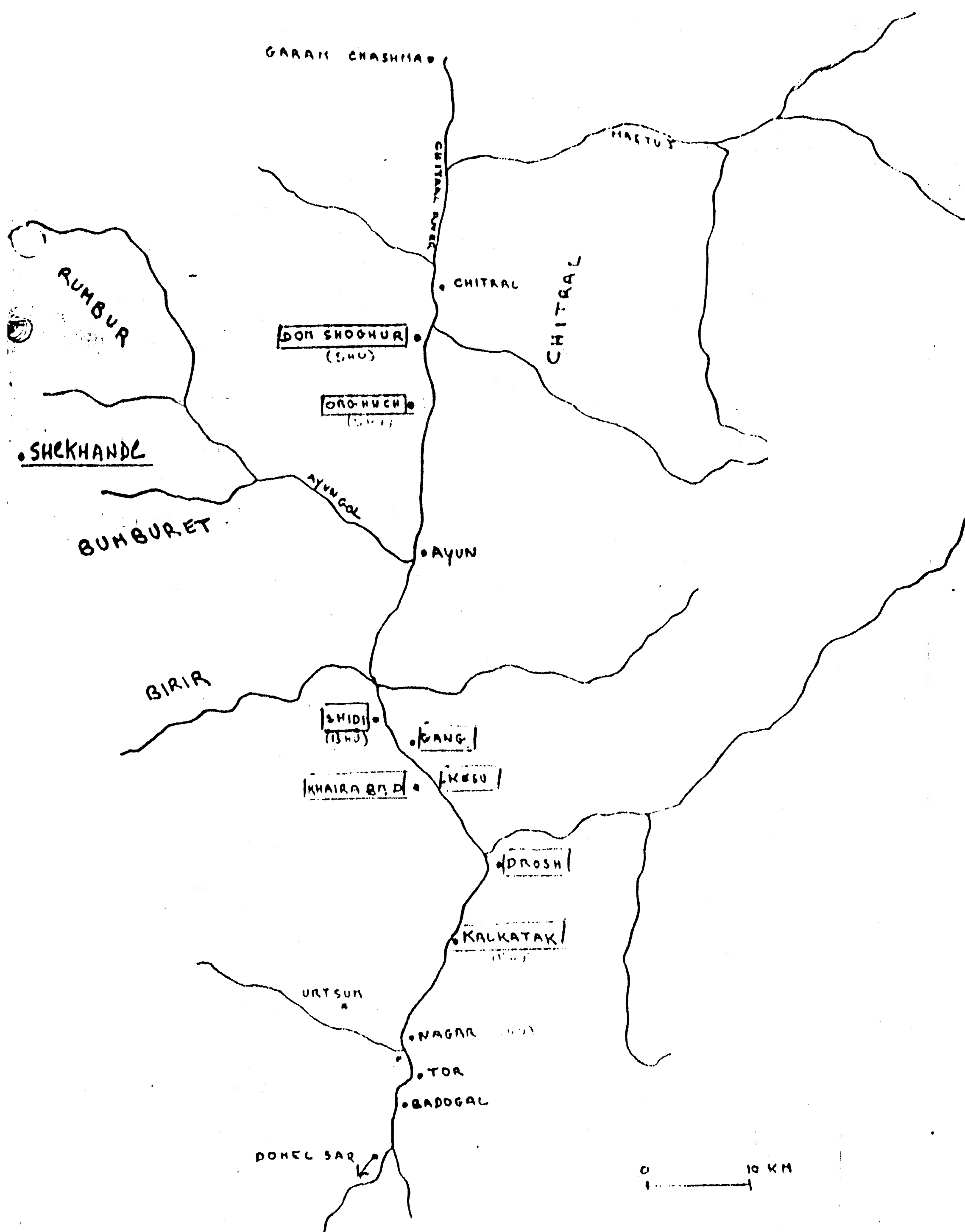
We noticed that the families took great interest in and good care of their cards. In the future, these cards can be used again in case of subsequent iodized oil injection project. The registration which took a long time during the campaign was, in fact, positive.

Among the 146 goiters observed, all stages mixed, 32% had decreased but it is not clear how these results are to be interpreted.

Although we cannot be certain how reliable our data were, regarding goiter size reduction, we gained a lot of information concerning cove--rage of the target population and use of iodized salt as well as re--gistration cards.

ANNEX 1.

MAP OF CHITRAL VALLEY.



Cluster identification form

NAME OF THE CAMP	POPULATION	CUMULATIVE POPULATION	CLUSTER NUMBER
DOMSHOGUR I	2000	2000	1, 2, 3
DOMSHOGUR II	1000	3000	4
DOMSHOGUR III	975	3975	5
ORGUSH	2322	6297	6, 7, 8
SHIDI	2227	8524	9, 10, 11
GANG	293	8817	12
BUMBURET	652	9469	
KHAIRABAD/KESU	5611	15080	13, 14, 15, 16, 17, 18, 19, 20
DROSH	2301	17381	21, 22, 23
KALKATAK			
. DOKALAM	1320	18701	24, 25
. NAREY	3500	22201	26, 27, 28, 29
. NANGAL	205	22406	30
. SHERAGAL	405	22811	